



3500.017374

PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
KEIJI TOMIZAWA ET AL. ) Examiner: Unassigned  
Application No.: 10/614,009 ) Group Art Unit: Unassigned  
Filed: July 8, 2003 )  
For: INK JET RECORD HEAD ) September 26, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. A copy of each of the listed documents is enclosed.

The Examiner's attention is also directed to the following U.S. Applications, a copy of each of which is enclosed:

<u>Application Number</u>	<u>Inventor(s)</u>	<u>Filing Date</u>	<u>Group Art Unit</u>	<u>Status</u>
10/614,159	Keiji Tomizawa Shuichi Murakami Mitsuhiro Matsumoto	July 8, 2003	Unassigned	Pending

*IDS considered by ex Raguely J. B. 12/2004*

<u>Application Number</u>	<u>Inventor(s)</u>	<u>Filing Date</u>	<u>Group Art Unit</u>	<u>Status</u>
10/419,843	Shuichi Murakami Michinari Mizutani	April 22, 2003	2861	Pending
10/419,839	Ken Tsuchii Mineo Kaneko Keiichiro Tsukuda Masaki Oikawa Kenji Yabe Keiji Tomizawa	April 22, 2003	2853	Pending
10/621,347	Shuichi Murakami Keiji Tomizawa	July 18, 2003	Unassigned	Pending

Japanese Patent Application Laid-Open No. 4-10941 is discussed at pages 3 and 13 of the specification and may be relevant for the reasons discussed therein.

Japanese Patent Application Laid-Open Nos. 54-161935, 61-185455, and 61-249768 are discussed at page 3 of the specification and may be relevant for the reasons discussed therein.

Japanese Patent Application Laid-Open No. 4-10940 is discussed at page 13 of the specification and may be relevant for the reasons discussed therein.

U.S. Patent No. 5,218,376 is a U.S. counterpart to Japanese Patent Application Laid-Open Nos. 4-10940 and 4-10941.

Abstracts for Japanese Patent Application Nos. 4-10940, 4-10941, 54-161935, 61-185455 and 61-249768, obtained from a commercial database, are enclosed for the Examiner's convenience.

*IDS considered by Ex. P. 12/2004*

FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. <b>03500.017374</b>		APPLICATION NO. <b>10/614,009</b>	
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)  June 1, 2004		APPLICANT <b>KEIJI TOMIZAWA ET AL.</b>			
		FILING DATE <b>July 8, 2003</b>		GROUP <b>2853</b>	

U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>ea</i>	4,209,794	06/1980	Kattner			
<i>ea</i>	5,646,662	07/1997	Kitahara			
<i>ea</i>	6,398,348 B1	06/2002	Haluzak et al.			

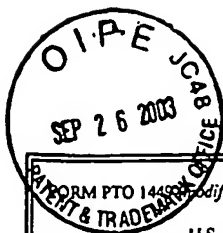
FOREIGN PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
<i>ea</i>	JP 57-107848	07/1982	Japan			Abstract
<i>ea</i>	JP 63-183855	07/1988	Japan			Abstract
<i>ea</i>	EP 1 167 471	01/2002	EPO			In English

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)  <div style="font-size: 2em; font-family: cursive;"> <i>Page 1 of 1</i> </div>	
EXAMINER <i>Page 1 of 1</i>	DATE CONSIDERED <i>12/2004</i>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicants.  
 DWP/tmc

Sheet 1 of 1



FORM PTO 1449 (Modified)  
PATENT & TRADEMARK OFFICE

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

LIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)

September 26, 2003

ATTY DOCKET NO.  
03500.017374

APPLICATION NO.  
10/614,009

APPLICANT  
KEIJI TOMIZAWA ET AL.

FILING DATE  
July 8, 2003

GROUP 2853  
~~Unassigned~~

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>AS</i>	5,218,376	06/1993	Asai			
	6,137,510	10/2000	Sato et al.			
	6,286,933 B1	09/2001	Murakami et al.			
	6,350,016 B1	02/2002	Tachihara et al.			
	6,439,696 B1	08/2002	Murakami et al.			
	6,443,561 B1	09/2002	Murakami			
	6,520,626 B1	02/2003	Murakami			
	6,540,335 B2	04/2003	Touge et al.			
	2002/0054181 A1	05/2002	Murakami			
	2002/0196299 A1	12/2002	Murakami			
	2003/0058305 A1	03/2003	Murakami et al.			
<i>AS</i>	2003/0067508 A1	04/2003	Mizutani et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
<i>AS</i>	JP 54-161935	12/1979	Japan			Abstract
	JP 61-185455	08/1986	Japan			Abstract
	JP 61-249768	11/1986	Japan			Abstract
	JP 4-10940	01/1992	Japan			Abstract*
<i>AS</i>	JP 4-10941	01/1992	Japan			Abstract*

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

\*Note: U.S. counterpart, Patent No. 5,218,376, is also enclosed.

EXAMINER *AS*

DATE CONSIDERED 12/2004

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicants.

Sheet 1 of 1